Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack

Release Notes

Release 8.1.0.0.0

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ORACLE
Financial Services

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OFS Advanced Analytical Applications Infrastructure Release Notes

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Document Control

Version Number	Revision Date	Change Log
1.3	July 2021	Removed references to Data Maintenance Interface (DMI) for Doc 33133258.
1.2	August 2020	Added migration information for IBM AIX and Oracle Solaris x86 Operating Systems in the Introduction section (Doc 31817756).
1.1	June 2020	Added the Metadata Browser (MDB) section.
1.0	May 2020	Created the Release Notes for 8.1.0.0.0 release.

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1 Introduction

Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection and manipulation of data and information required to analyze, understand and report on specific performance, risk, compliance and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.

OFS AAAI Application Pack 8.1.0.0.0 release can be used to perform a new OFS AAAI Application Pack installation or upgrade from an existing OFS AAAI 8.0.6.1.0 or higher versions. For more information, see the *Installation and Upgrade Scenarios* section in the OFS AAAI Installation Guide.

NOTE:

- For information about the Hardware and Software Requirements for this release, see the Oracle Financial Services Analytical Applications 8.1.0.0.0 Technology Matrix.
- SQL Rule is a deprecated feature and is not supported. For further guidance, contact Oracle support.
- Release v8.1.0.0.0 of OFS AAAI is not certified for IBM AIX and Oracle Solaris x86 Operating Systems. If you are currently running OFSAA v8.0.x on AIX or Solaris x86 Operating Systems and plan to upgrade to Release v8.1.0.0.0, then you must migrate from AIX or Solaris x86 to Oracle Linux or Oracle Solaris SPARC. See the My Oracle Support Doc ID 2700084.1 for details.

1.1 Products of OFS AAAI Application Pack

Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack provides integrated stress testing and modeling capabilities that you can readily apply across multiple risk areas enabling institutions to devise appropriate enterprise-wide and holistic risk and economic capital strategies.

OFS AAAI helps you to comply with regulatory requirements on stress testing, enables advanced customer and portfolio analytics, utilizes multiple industry-standard techniques to test and model with complete data integrity.

OFS AAAI Application Pack includes the following applications:

- OFS Analytical Applications Infrastructure (OFS AAI)
- OFS Big Data Processing (OFS BDP)
- OFS Enterprise Modeling (OFS EM)

ATTENTION OFS Inline Processing Engine (OFS IPE) is not a part of OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack 8.1.0.0.0.

1.1.1 Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)

Oracle Financial Services Analytical Applications Infrastructure is comprised of a set of frameworks that operates on and with the Oracle Financial Services Analytical Applications Data Model. This infrastructure delivers metadata across the stack and provides a single set of computational engines and business rules.

1.1.2 Oracle Financial Services Big Data Processing (OFS BDP)

Oracle Financial Services Big Data Processing option caters to the OFSAA platform (OFS AAI) with the capability to run analytics on data stored in Hadoop Distributed File System (HDFS). With the BDP add-on option, all core data management frameworks within OFSAA such as Data Management Framework (T2T/ F2T), Business Metadata Management, Data Quality Framework, and Rules framework are enhanced to operate on both Oracle RDBMS data sources as well as Apache Hive data sources.

OFSAA Run definitions may contain tasks that transform data held in Hive. OFSAA applications that use these platform frameworks for expressing application logic automatically gain the ability to manage data held in Hive. The OFSAA platform leverages HiveQL and Map Reduce in order to process data directly in the Hadoop cluster without having to stage data in a relational database.

1.1.3 Oracle Financial Services Enterprise Modeling (OFS EM)

Oracle Financial Services Enterprise Modeling offers banking institutions to identify business opportunities and to measure the risk prevailing in the competitive market to safeguard the regulatory and economic capital of banks.

It features integrated stress testing and modeling capabilities that you can readily apply across multiple risk areas enabling institutions to devise appropriate enterprise-wide and holistic risk and economic capital strategies. The Enterprise Modeling application helps to build robust models or validate the existing models to quantify and predict the risk involved. It also helps banks to conform to prevalent regulatory and supervisory standards based on constant monitoring. Previously, models were built using various pre-packaged statistical functions/ techniques within the system. The Enterprise Modeling application enables a unique scripting environment that allows business analysts to develop R scripted techniques (using R functions as well as ORE functions), which can be used in defining the models. Additionally, modelers can directly script the model in the application. Thus, it provides a unified environment to build, host, and execute models across risk categories and a common framework to manage stress scenarios.

2 Oracle Financial Services Analytical Applications Infrastructure

This chapter describes the new features, bugs addressed, and known issues in this release of OFS AAI.

Topics:

- New Features
- Limitations and Known Issues

2.1 New Features

The following features are introduced in this release.

For more information on the enhancements, see the OFS AAI User Guide.

2.1.1 Support for New Technologies

The following new technologies are introduced in this release:

- Database: Oracle Database18c, Oracle Database 19c
- TCPS and Oracle Wallet
- Web Application Server: Apache Tomcat v9.0.x, IBM WebSphere Application Server 9.0.0.x (Full Profile only)
- Browser: Microsoft Edge

2.1.2 OFSAA Single Archive

OFS AAI supports single archive deployment model. Now you can build the EAR/WAR file once and deploy it across multiple OFSAA instances on the same release version.

2.1.3 Model Upload

The following are the new features for model upload in this release:

- Model Upload supports uploading Database XML in addition to ERwin XML. For more information, see the Command Line Utility for Transforming ERwin XML to Database XML section in the OFS AAI User Guide.
- Model Upload supports ERwin 2018 R1, 2019 R1, and 2020 R1 versions.

2.1.4 Data Management Tools

The following are the new features for data management tools in this release:

- Data Mapping, Expression Builder, and Post Load Changes windows are enhanced to use OJET libraries

2.1.5 Data Quality Framework

The following are the new features for data quality framework in this release:

- Versioning of Data Quality rules is introduced.
- The 'Make Latest' feature enables you to make any version of a Data Quality rule active.
- A new user role DQAUTOAUTHR is introduced. The DQ rules that are created or updated by the users mapped to DQAUTOAUTHR role are automatically authorized.

2.1.6 Business Metadata Management

The following are the new features for business metadata management in this release:

- The *Hierarchy Browser* window is enhanced to use OJET libraries.
- Maintenance of AMHM Configuration Properties is done through the AAI_AMHM_PROPS table. For more information, see the *General Configurations for Dimension Management Module* section in the OFS AAI Administration Guide.

2.1.7 Process Modeling Framework

The following are the new features for process modeling framework in this release:

- Supports Filter conditions at Run Pipeline and Sub Pipeline
- Supports the Run Executable component

2.1.8 Rule Run Framework

The following are the new features for rule run framework in this release:

- Rule Execution engine supports Run time filters based on Process ID.
- The *Component Registration* and *Component Selector* windows are enhanced to use OJET libraries.

2.1.9 Data Entries Forms and Queries

The following are the new features for data entries forms and queries in this release:

- The Forms Designer and Data Entry windows in DEFI are compatible in both Google Chrome and Internet Explorer browsers.

2.1.10 System Configuration and Identity Management

The following are the new features for system configuration and identity management in this release:

- Supports SAML Request and Logout without Logout Response from Identity Provider (IdP) - OFS AAI supports signed SAML requests with the help of X509 Certificate and RSA Private Key. Clients have the option to provide their own key and certificate. The logout function now works without a logout response from the Oracle Identity Provider.
- SAML Configuration now supports both Redirect and POST Binding for SAML requests sent to IdP.

- Supports IdP initiated SAML authentication
- Supports the use of the XLSM format in MS Excel for the Excel Upload functionality. This enhancement removes the limitation of rows that existed in the XLS format.

2.1.11 Object Administration

The following are the new features for object administration in this release:

- Mapping of Map Definitions to Segment is now available from the *Metadata Segment Mapping* window.

2.1.12 Metadata Browser (MDB)

Metadata Browser is revamped with a new user interface to enhance the user experience of viewing the metadata.

It now supports publishing of Process Modeling Framework (PMF) objects such as PMF Pipelines and Tasks. You can trace these objects in the Metadata Browser.

2.2 Limitations and Known Issues

The following are the limitations and known issues in this release:

- **Process Modelling Framework**
  - Saving a Pipeline as a new version is not working.
  - Though the PMF Pipelines are migrated with overwrite flag set as 'N', it overwrites the Pipeline in the target environment.
  - AMHM Filters like Data Element, Hierarchy, Group, and Attributes are not supported as Run condition

3 Oracle Financial Services Big Data Processing

Oracle Financial Services Big Data Processing (BDP) is a separately licensed product.

The modules and frameworks enabled to support Big Data Processing in OFS AAI are as follows:

- Data Model Maintenance
- Data Management Tools including Data Sources, Data Mapping, Data File Mapping, and Data Quality Framework
- Business Metadata Management for objects such as Business Processor, Hierarchy, Dataset, and Measures
- Run Rule Framework
- System Configuration & Identity Management including Database Details and Information Creation

OFS Enterprise Modeling is also enabled to support Big Data Processing. To enable Big Data support for OFS EM, you should have a separate license.

3.1 New Features

As part of Release 8.1.0.0.0, no enhancements are done for OFS Big Data Processing.

4 Oracle Financial Services Enterprise Modeling

OFS Enterprise Modeling is supported for Big Data. Licensing of the BDP option is required to have Big Data support for OFS Enterprise Modeling.

4.1 New Features

As part of Release 8.1.0.0.0, no enhancement is done for OFS Enterprise Modeling.

5 Features or Modules Desupported

The product desupported from OFS AAAI Application pack is OFS Inline Processing Engine (OFS IPE).

The features and modules that are desupported from OFS AAI are as follows:

- Inline Process feature in Process Modelling Framework
- Forms Framework
- Forms Manager
- Business Restructure
- Flexible KBD

6 Hardware and Software Tech Stack Details

The hardware and software combinations required for OFS AAAI 8.1.0.0.0 are available in the OHC Tech Stack.

7 Licensing Information

For details on the third party software tool used, see the *OFSAA Licensing Information User Manual Release 8.1.0.0.0* available in the OFSAA Generic Documentation Library.

OFSAA Support

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA applications.

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